

Abstract

A visual inspection device configured to traverse a steam dam around a perimeter of a nuclear boiling water reactor vessel and support a camera for performing visual inspections. The device includes a trolley having at least two roller assemblies coupled by a connecting member. The roller assemblies steer the trolley around the perimeter of the reactor vessel. At least one of the roller assemblies is driven by a first motor. The device also includes a mast upstanding from the trolley, an elevating mechanism coupled to the mast, a carriage coupled to the mast and the elevating mechanism, the carriage being responsive to activation of the elevating mechanism for movement relative to and along the mast, a first arm rotatably coupled at a first end to the carriage, and a second arm rotatably coupled to a second end of the first arm, the camera being supported by the second arm.